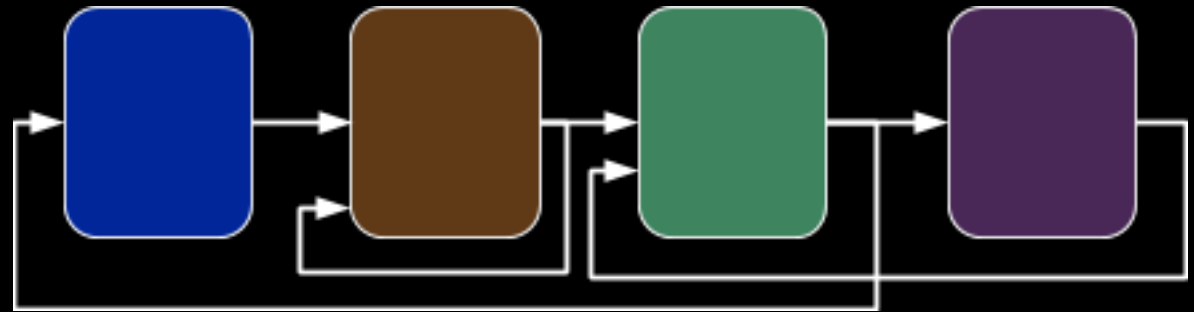


# ← Backedges ←

- Inference callers
- Inference cycles
- Inlining code / devirtualize dispatch
- Method cache (fast dispatch, compiled code)
- Method lookup (TypeMap)
- Failed method lookup (MethodError)



```
julia> const nadds = Ref{0}
Base.RefValue{Int64}(0)
```

```
julia> function count_adds()
    n1 = nadds[]
    1 + 1 + 2 + 3 + 4
    n2 = nadds[]
    return n2 - n1
end
count_adds (generic function with 1 method)
```

```
julia> count_adds()
0
```

```
julia> function Base.:+(a::Int, b::Int)
    nadds[] = Core.Intrinsics.add_int(nadds[], 1)
    return Core.Intrinsics.add_int(a, b)
end
```

```
julia> nadds
Base.RefValue{Int64}(821)
```

```
julia> nadds
Base.RefValue{Int64}(2680)
```

```
julia> count_adds() # JuliaLang issue 265 solved!
4
```